What is claimed is:

1. A cyclosporin analog of formula I or a pro-drug or a pharmaceutically acceptable salt thereof:

A---B---Sar-MeLeu-Val-MeLeu-Ala---U---MeLeu-MeLeu-MeVal — 1 2 8

(l)

wherein

(i) A is of the formula:

wherein:

X is absent, -C1-C6 alkyl-, or -C3-C6 cycloalkyl-;

Y is selected from the group consisting of: aryl, substituted aryl, heteroaryl, and substituted heteroaryl;

(ii) B is $-\alpha$ Abu-, -Val-, -Thr- or -Nva-; and

(iii) U is -(D)Ala-, -(D)Ser-, -[O-(2-hydroxyethyl)(D)Ser]-, -[O-(acyl)(D)Ser]- or -[O-(2-acyloxyethyl)(D)Ser]-.

 A cyclosporin analog according to Claim 1 or a pro-drug or a pharmaceutically acceptable salt thereof, wherein in formula I, B is -αAbu-, and U is -(D)Ala-.

20

25

5

10

is $-\alpha$ Abu-; and U is -(D)Ala-;

5

35

acceptable salt thereof, wherein in formula I:	
(i)	A is of the formula A1 or A2, wherein:
	X is absent; and
	Y is selected from the group consisting of:
	aryl, substituted aryl, heteroaryl, and substituted
	heteroaryl;
(ii)	B is $-\alpha$ Abu-; and
(iii)	U is -(D)Ala
A cyclosporin analog according to Claim 1 or a pro-drug or a pharmaceutically	
acceptable salt thereof, selected from the group consisting of:	
Compound of formula (I), where A=A1, X is absent and Y = (2'-Me)Ph; B is -	
αAbu-; and U is –(D)Ala-;	
Compound of formula (I), where A=A1, X is absent and Y = (4'-F)Ph; B is -	
αAbu-; and U is –(D)Ala-;	
Compound of formula (I), where A=A1, X is absent and Y = (4'-CF3)Ph; B is -	
α Abu-; and U is –(D)Ala-;	
Compound of formula (I), where A=A1, X is absent and Y = (2'-Br)Ph; B is -	
αAbu-; and U is –(D)Ala-;	
Compound of formula (I), where $A=A1$, X is absent and $Y=(2'-CI)Ph$; B is $-$	
αAbu-; and U is –(D)Ala-;	
Compound of formula (I), where $A=A1$, X is absent and $Y=(2'-OMe)Ph$; B is $-$	
αAbu-; and U is –(D)Ala-;	
Compound of	of formula (I), where A=A1, X is absent and Y = (3'-CI)Ph; B is -
αAbu-; and l	U is –(D)Ala-;
Compound of	of formula (I), where A=A1, X is absent and $Y = (4'-CI)Ph$; B is -
αAbu-; and l	U is –(D)Ala-;
Compound of	of formula (I), where $A=A1$, X is absent and $Y=(3'-Br)Ph$; B is $-$
αAbu-; and U is –(D)Ala-;	
Compound of formula (I), where $A=A1$, X is absent and $Y=(4'-Br)Ph$; B is $-$	
α Abu-; and U is –(D)Ala-;	
Compound of formula (I), where $A=A1$, X is absent and $Y=(3'-COOCH_3)Ph$; B	
is $-\alpha$ Abu-; and U is $-(D)$ Ala-;	
Compound of formula (I), where A=A1, X is absent and Y = (4'-COOCH ₃)Ph; B	

3. A cyclosporin analog according to Claim 1 or a pro-drug or a pharmaceutically

10

Compound of formula (I), where A=A1, X is absent and Y = (2'- Naphthalene); B is $-\alpha$ Abu-; and U is -(D)Ala-; Compound of formula (I), where A=A1, X is absent and Y = (4'-t-butyl)Ph; B is $-\alpha$

Compound of formula (I), where A=A1, X is absent and Y = (pentafluoro)Ph; B is $-\alpha$ Abu-; and U is -(D)Ala-;

 α Abu-; and U is –(D)Ala-;

Compound of formula (I), where A=A1, X is absent and Y = (4'-AcO-)Ph; B is $-\alpha$ Abu-; and U is -(D)Ala-;

Compound of formula (I), where A=A1, X is absent and Y = $(4'-OCH_3)$ Ph; B is – α Abu-; and U is –(D)Ala-;

Compound of formula (I), where A=A1, X is absent and Y = (3', 4'-OMe₂)Ph; B is $-\alpha$ Abu-; and U is -(D)Ala-;

Compound of formula (I), where A=A1, X is absent and Y = $(2',5'-Me_2)$ Ph; B is $-\alpha$ Abu-; and U is -(D)Ala-;

Compound of formula (I), where A=A1, X is absent and Y = Pyridine; B is $-\alpha$ Abu; and U is -(D)Ala-;

Compound of formula (I), where A=A1, X is absent and Y = Pyrrole; B is – α Abu; and U is –(D)Ala-;

Compound of formula (I), where A=A1, X is absent and Y = (N-methyl) Pyrrole; B is $-\alpha$ Abu; and U is -(D)Ala-;

Compound of formula (I), where A=A1, X is absent and Y = Thiophene; B is $-\alpha$ Abu; and U is -(D)Ala-;

Compound of formula (I), where A=A1, X is absent and Y = Oxazole; B is – α Abu; and U is –(D)Ala-;

Compound of formula (I), where A=A2, X is absent and Y = (2'-Me)Ph; B is – α Abu; and U is –(D)Ala-;

Compound of formula (I), where A=A1, X is absent and Y = (S)Ph; B is $-\alpha$ Abu; and U is -(D)Ala-;

Compound of formula (I), where A=A1, X is absent and Y = (SO)Ph; B is – α Abu; and U is –(D)Ala-; and

Compound of formula (I), where A=A1, X is absent and Y = (SO₂)Ph; B is $-\alpha$ Abu; and U is -(D)Ala-.

30

30

5

10

- 5. A chemical process for preparing a cyclosporin analog of formula I as claimed in Claim 1, comprising reacting a compound of formula I, wherein A= -MeBmt-, with:
 - a. an olefin of formula CH2=CH-X-Y, wherein X and Y are as defined in Claim 1, and
 - b. a catalyst;

in the presence of a lithium salt in an organic solvent and optionally converting the product of said reaction into a pharmaceutically acceptable salt.

6. The process of claim 5, wherein the catalyst is Grubb's ruthenium alkylidene, Grubbs dihydroimidazole ruthenium catalyst, Schrock-Hoveyda molybdenum catalyst, Nolan's catalyst, a benzylidene catalyst or a molybdenum catalyst.

- 7. A chemical process for preparing a cyclosporin analog of formula I as claimed in Claim 1, comprising:
 - a. reacting a compound of formula I, wherein A= -MeBmt- with:
 - i. an olefin of formula CH2=CH-X-Y, wherein X and Y are as defined in Claim 1; and
 - ii. a catalyst;

in the presence of a lithium salt in an organic solvent; and

- b. hydrogenating the product of step a in an organic solvent under hydrogen with a catalyst;
 and optionally converting the product of said reaction into a pharmaceutically acceptable salt.
- 8. The chemical process as claimed in Claim 7, wherein the catalyst in step (a) (ii) is Grubb's ruthenium alkylidene, Grubbs dihydroimidazole ruthenium catalyst, Schrock-Hoveyda molybdenum catalyst, Nolan's catalyst, a benzylidene catalyst or a molybdenum catalyst.
- 9. The chemical process as claimed in Claim 7, wherein step (b) is performed at room temperature.
- The chemical process as claimed in Claim 9, wherein the catalyst in step (b) is Palladium on carbon or Platinum Oxide.

5

10

- 11. A pharmaceutical composition, said composition comprising at least one cyclosporin analog of formula I as claimed in Claim 1, said cyclosporin analog being present alone or in combination with a pharmaceutically acceptable carrier or excipient.
- 12. A method for treating autoimmune diseases in a subject, which comprises the step of administering to said subject a therapeutically effective amount of at least one cyclosporin analog of formula I as claimed in Claim 1.
- 13. The method of Claim 12, wherein said autoimmune disease is selected from conical cornea, keratitis, dysophia epithelialis cornea, leukoma, Mooren's ulcer, sclevitis and Grave's ophthalmopathy.
- 14. A method for preventing organ transplantation rejection in a subject, which comprises the step of administering to said subject a therapeutically effective amount of at least one cyclosporin analog of formula I as claimed in Claim 1.